

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/14567

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 C07J7/00 C07J9/00 A61K31/57 A61K31/575 A61P35/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C07J A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

CHEM ABS Data, EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MODI, SANDEEP P. ET AL: "Conjugate addition of Grignard reagents to enones and dienones" JOURNAL OF ORGANIC CHEMISTRY (1989), 54(10), 2317-21, XP002242748 example 7C	1-20
Y	CIOBANU, L. C. ET AL: "Synthesis and steroid sulfatase inhibitory activity of C19- and C21-steroidal derivatives bearing a benzyl-inhibiting group" EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY (2001), 36(7-8), 659-671, XP004372876 figures 1-3; examples 16-22; table 2	1-20 -/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

\*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&\* document member of the same patent family

Date of the actual completion of the International search

16 April 2004

Date of mailing of the International search report

26/04/2004

Name and mailing address of the ISA

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## INTERNATIONAL SEARCH REPORT

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	R. P. BOIVIN ET AL.: "Structure-Activity Relationship of 17alpha-Derivatives of Estradiol as Inhibitors of Steroid Sulfatase" J. MED. CHEM., vol. 43, 2000, pages 4465-4478, XP002232869 table 4, section "conclusion"; scheme 3 abstract ----	1-20
A	ENDO, YASUYUKI ET AL: "Oxygenated cholesterols as ligands for cytosolic-nuclear tumor promoter binding protein: Yakkasteroids" BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS (1993), 194(3), 1529-35, XP002232867 examples YS-161; table 2 ----	1-20
A	JP 06 321782 A (SHUDO KOICHI, JAPAN) 22 November 1994 (1994-11-22) col. 5, lines 46-48; col. 6, lines 47-48; table on page 9, YS-161 ----	1-20
A	BERGSTROM, CARL P. ET AL: "Inhibition of cholesterol side-chain cleavage. Part 5. Synthesis of 22-(p-chlorophenyl)cholesterol analogs" DRUG DESIGN AND DELIVERY (1991), 7(4), 259-68, XP001079777 examples 2A,2B,6C -----	1-20

# INTERNATIONAL SEARCH REPORT

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PCT/EP 03/14567

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

Although claim 20 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**

International Application No

PCT/EP 03/14567

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 6321782	A 22-11-1994	NONE	